

GAVRILOV, A.A.; ALEKSANDROVA, V.A.

Clay minerals of the Ordovician argillites of the Southern
Urals. Dokl. AN SSSR 157 no.4:870-872 Ag '64 (MIRA 17:8)

1. Geologicheskiy institut AN SSSR. Predstavлено akademikom
N.M. Strakhovym.

Beaufort County

PROBLEMS AND PROSPECTS OF THE

NO. 540 6 IN COPPER

Colorimetric determination of benzene in air.
 A. A. Gavrilov (J. Chem. Ind. Russ., 1931, 8, No. 23-24, 32-33).—20-50 litres of air are bubbled through 15 c.c. of a 4:1 mixture of conc. H_2SO_4 and HNO_3 , which is then neutralised with aq. NH_3 and extracted with Et_2O . 20 c.c. of the extract are heated at 100° with 20 c.c. of 5% H_2SO_4 and Zn dust, thus eliminating Na_2O and reducing $PhNO_2$ to Ph_2N . The solution is then filtered through glass wool, and the filtrate and washings are made up to 100 c.c., to an aliquot part of which 20% aq. Na_2CO_3 is added until a ppt. of $ZnCO_3$, $Zn(OH)_2$, appears, which is then dissolved by addition of 20% aq. tartaric acid. Aq. $CuOCl_2$ (0.075%) is now added until further addition does not produce intensification of the violet-red coloration appearing, the vol. is made up to 50 c.c., and the intensity of coloration is compared with that given by a standard solution of Ph_2N similarly treated. Quantities of 6-70 mg. of C_6H_6 may be determined by this method with an error $\pm 5\%$. This method is also applicable to the determination of the C_6H_6 content of benzene, 3-5 c.c. of which are added in a thin stream to the H_2SO_4 - HNO_3 mixture, which is then further treated as above.

R. TRUBIĘKOWSKI.

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ABA-11A. METALURGICAL LITERATURE CLASSIFICATION

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APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R000514420018-6"

14

o-Tolidine method for determination of active chlorine in the water of city water-mains. A. A. Gavrilov (Sanitation and Hygiene Lab., Stalin Region). *Zhur. Anal. Kim.*, 4, 365 8(1949).—This method is based on the color developed when free Cl reacts with *o*-tolidine. To prep. the reagent dissolve 1 g. of *o*-tolidine in 1 l. of 10% HCl. To det. free Cl, place 1 ml. of reagent into a Nessler tube, add 100 ml. of analyzed H₂O, shake, keep in a dark place for 5-10 min., and compare color. Color standards for comparison are prep'd. from solns. of CuSO₄ and K₂Cr₂O₇ taken in various proportions. It is important to have these salts pure. Fe and nitrites are likely to affect the results. Their effects are practically avoided by addn. of 1 ml. of 30% HCl to the analyzed soln. Such addn. permits detn. of free Cl in the presence of 1 mg. of Fe and 0.3 mg. of nitrite.

M. Hoch

GAVRILOV, A. A.

35832 K voprosu ob ortotolidinovom metode opredeleniya aktivnogo khlora v vode gorvodoprovoda
zhurnal analit khimii, 1949, vyp. 6, s. 365-68

SO: Lepotis' Zhurnal'nykh Statey, No. 49, 1949

29225 O pit'evom vodosnabzhenii na prompredpriyatiyakh. Gigiena i sanitariya, 1949, no 8, s. 46-47

SO: Letopsi' Zhurnal'nykh Statey, Vol. 39, Moskva, 1949

AVRILOV, A.A.

Continuous warping. Tekst.prom. 21 no.11:53-55 N '61. (MIRA 14:11)

1. Starshiy inzhener filiala proyektno-konstruktorskogo byuro
po l'nyanoy promyshlennosti (g. Vyazniki).
(Warping machines)

GAVRILOV, A.A., starshiy inzhener

Yarn loop flying off from hollow cops. Tekst.prom. 22 no.4:53-54
Ap '62. (MIRA 15:6)

1. Filial proyektno-konstruktorskogo byuro L'nyanoy promyshlennosti,
g. Vyazniki.

(Looms)

SAVRILOV, A.A., P.M.P. (1961)

Automating the operation of an electric sinking pump. Nefteprom.
dale no.12/21-24 '61. (MIRA 18/3)

1. Neftepromyсловое управление "Аксаковнефть".

GAVRILOV, A.A.

Albitized injectional clastic bodies in the Ordovician sediments
of the Southern Urals. Dokl. AN SSSR 160 no.5:1155-1158 F '65.
(MLRA 18:2)

1. Geologicheskiy institut AN SSSR. Submitted November 26, 1964.

GAVRILOV, A.A.

Ordovician volcanic sedimentary complex of the Southern Urals.
Lit. i pol. iskop. no.3:3-17 My.-Je '65.

(MIRA 18:10)

1. Geologicheskiy institut AN SSSR, Moskva.

GINZBURG, A.F.

Primeneniye kharakteristik k priblizhennomu chislennomu integrirovaniyu lineinnykh uravneniy s chastnyi proizvodnyi vtorogo poryadka giperbolicheskogo tipa.
(volnevoye uravneniye) L., Nauchnoe Tekhn. sb. elektrotekhn. in-ta svyazi, 1 (1933), 5-15.

Primeneniye kharakteristik k priblizhennomu chislennomu integrirovaniyu lineinnykh uravneniy s chastnyi proizvodnyi vtorogo poryadka giperbolicheskogo tipa, II. L., Nauchnoe Tekhn. sb. Elektrotekhn. in-ta svyazi, 4-5 (1934), 147-158.

Primeneniye kharakteristik k priblizhennomu chislennomu integrirovaniyu lineinnykh uravneniy s chastnyi proizvodnyi vtorogo poryadka giperbolicheskogo tipa. L., Trudy vtorogo vsesoyuzn. Matem. Sessii, T.2 (1936), 393-397.

SO: Mathematics in the USSR, 1917-1947
edited by Kurosh, A.G.,
Markushevich, A.I.,
Rashevskiy, P.K.
Moscow-Leningrad, 1948

GAVRILOV, A. F.

57/49T47

USSR/Mathematics
Academy of Sciences

Apr 49

"Mathematician Innovators," A. F. Gavrilov, 4 pp

"Priroda" No 4

Describes accomplishments of three mathematicians who won Stalin Prizes in 1948: V. I. Smirnov completed 5-volume work, "Course in Higher Mathematics." G. M. Goluzin prepared the books. "The Method of Variation in Conformal Reflection," and "Theorems on Distortion and Coefficients of Monofolial Functions." N. G. Chebotarev (posthumous award) wrote "Problems of Resolvents."

57/49T47

GAVRILOV, A. F.

Gavrilov, A. F. - "The application of the Lyapynove-Krylova method of consecutive approximations for the integration of nonlinear equations in partial derivative," Sbornik trudov Leningr. Elektrotekhn. in-ta svyazi im. Bonch-Bruevicha, Issue 5, 1949, p. 91-96.

SO: U-5240, 17, Dec. 53, (Letopis 'Zhurnal 'nykh Statey, No. 25, 1949).

GAVRILOV, A. F.

"Fourier Series Expansion of $\sin(z \cdot \sin \omega t)$ and Similar Functions," Sbornik Trudov LEIS imeni Bonchi-Bruyevich, No 6, 1949.

112-57-7-15561

Translation from: Referativnyy zhurnal, Elektrotehnika, 1957, Nr 7, p 250 (USSR)

AUTHOR: Gavrilov, A. F.

TITLE: Errors in Books on Pulse Technique
(Oshibki v knigakh po impul'snoy tekhnike)

PERIODICAL: Sb. tr. Leningr. elektrotekhn. in-ta svyazi, 1956, Nr 1, pp 106-109

ABSTRACT: A few mathematical errors are pointed out in two "Impulsnaya Tekhnika" (Pulse Technique) books by Ya. S. Itsikhovi and N. N. Krylov. The errors were noticed in the passages treating: (1) determination of frequency spectrum of oscillations; (2) transition from a series to the Fourier integral; and (3) presentation of a function as a double Fourier integral while the conditions of absolute integrability within infinite limits were not satisfied.

A. P. O.

Card 1/1

GAVRILOV, A.F.

Reminiscences about Fridman; apropos of A.A. Fridman's correspondence.
Trudy Inst. ist. est. i tekh. 22:389-400 '59. (MIRA 12:10)
(Fridman, Aleksandr Aleksandrovich, 1888-1925)

KUZNETSOV, N.V., doktor tekhn.nauk; LUZHNOV, G.I., inzh.; GAVRILOV,
A.F.; SEME NOVA, T.F.

Preventing peening in shot blasting cleaning of heating
surfaces. Teploenergetika 7 no.10:27-31 0 '60. (MIRA 14:9)

1. Vsesoyuznyy teplotekhnicheskiy institut.
(Boilers--Cleaning)

LUSHNOV, G.I., inzh.; ZVEREV, N.I., kand.tekhn.nauk; GAVRILOV, A.F., inzh.

Experimental determination of resistance coefficients in the
pneumatic transportation of pig iron shot. Teploenergetika 8
no.1:15-18 Ja '61. (MIRA 14:4)

1. Vsesoyuznyy teplotekhnicheskiy institut.
(Boilers—Cleaning) (Pneumatic-tube transportation)

LUZHNOV, G.I., inzh.; ZVEREV, N.I., kand.tekhn.nauk; GAVRILOV, I.A.F., inzh.;
PIGALEV, V.P., inzh.

Pneumatic transportation of shot in boiler systems and methodology
for its designing. Elek.sta. 33 no.11:12-19 N '62.

(MIRA 15:12)

(Boilers)

KUZNETSOV, N.V., doktor tekhn. nauk, prof.; GAVRILOV, A.F., inzh.

Air heater with intermediated heat carrier. Teploenergetika 11
no.10:30-34 0 '64. (MIRA 18:3)

1. Vsesoyuznyy teplotekhnicheskiy institut.

GAVRILOV, A.F., inzh.; LYAKH, V.Ya.

Air heaters with an intermediate heat carrier. Teploenergetika
12 no.3:11-17 Mr '65. (MIRA 18:6)

1. Vsesoyuznyy teplotekhnicheskiy institut.

ACC NR: AP7001955

(A)

SOURCE CODE: UR/0120/66/000/006/0161/0164

AUTHOR: Itskevich, Ye. S.; Voronovskiy, A. N.; Gavrilov, A. F.; Sukhoparov, V. A.

ORG: Institute of Physics of High Pressures AN SSSR, Moscow (Institut fiziki vysokikh davleniy AN SSSR)

TITLE: High pressure (up to 18 Kbar) chamber for operation at liquid helium temperatures

SOURCE: Pribory i tekhnika eksperimenta, no. 6, 1966, 161-164

TOPIC TAGS: high pressure chamber, metal, single crystal, liquid helium, temperature, beryllium bronze, corundum microlite

ABSTRACT: Two models of a high-pressure (up to 18 kbar) chamber used for studying single crystals of metals and semiconductors in a magnetic field at liquid helium temperatures are described. The chambers (6.5 mm inside diameter) are made of heat-treated beryllium-bronze and the pistons are made of TSM-322 corundum-microlite heat treated to a hardness of 75—78Rc. The required pressure is created in the chamber at room temperature by a hydraulic press. The chamber is then sealed mechanically and placed in a Dewar vessel containing liquid helium. Pressure is measured by means of manganin and superconducting pressure gages. The magnitudes of anisotropy

Card 1/2

UDC: 539.89

ACC NR: AP7001955

of magnetic resistance and of quantum oscillations of electric resistance of zinc, measured in the chamber, showed that the compression was close to hydrostatic. The heat expansion of the materials used for chamber construction were tested at temperatures from 77K to 20C. It was found that the heat expansion coefficient of corundum-microlite is significantly smaller than that of beryllium-bronze. Thus, using a second material in the chamber should not lead to pressure losses when the temperature drops.
Orig. art. has: 4 figures and 1 table.

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SUB CODE: 20/ SUBM DATE: 11Dec65/ ORIG REF: 003/ OTH REF: 003/
ATD PRESS: 5112

Card 2/2

GAVRILOV, A.G.

Preparation of potassium-calcium phosphate (thermo).
Izv.vys.ucheb.zav.;khim.i khim.tekh. 4 no.3:437-445 '61.
(MIRA 14:10)

I. L'vovskiy politehnickiy institut, kafedra tekhnologii
neorganicheskikh veshchestv.
(Fertilizers and manures)
(Phosphates)

GAVRILOV A. I.

USSR/Diseases of Farm Animals. Diseases Caused by Viruses and Rickettsiae.

Abs Jour : Ref Zhur-Biol., No 20, 1953, 92692

Author : Gavrilov, A. I.
Inst : Vitebsk Veterinary Institute,
Title : Pathological and Anatomical Changes in the Central Nervous System of Bovines in the Presence of Malignant Catarrhal Fever (2nd Report).

Orig Pub : Uch. zap. Vitebskogo vet. in-ta, 1955, 14, No 1, 45-62

Abstract : No abstract.

Card : 1/1

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Country : USSR APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514420018-6

Cattle.

Abs. Jour : Ref Zhur-Biol., No 14, 1953, 7227

Author : Gavrilov, A. I.
Institut. : Vitebsk Veterinary Institute.
Title : The Histological Changes of the Central Nervous System in Oxen-Producers of Antiercysipelas Immune Serum.
Orig Pub. : Uch. zap. Vitebskogo vet. in-ta, 1957, 15, 45-49
Abstract : No abstract.

Card: 1/1

16

GAVRILOV A. I.

USSR/Diseases of Farm Animals - Noncontagious Diseases.

The Swine.
ABS. JOUR. : RZhBiol., No. 3, 1959, No. 12040
AUTHOR : Gavrilov, A. I.; Akulinin, A. A.; Zhakov, M. S.
INST. : Vitebsk Institute of Veterinary Science.
TITLE : The Sympathetic Nerves of the Gastro-Intestinal Tract in the Pig (Experimental Morphological Investigation).
ORIG. PUB. : Uch. zap. Vitebskogo vet. in-ta, 1957, 15, 173-177
ABSTRACT : It was demonstrated on 64 carcasses of pigs 3 months to 2 years old and experimentally on 6 piglets 1-2 months old that the sympathetic nerve trunks leading from the splanchnic and cranial mesenteric ganglia are the basic nerve ducts affluent to the gastro-intestinal tract (GIT). Experiments in which these ganglia were removed and visceral nerves were severed, testify to the fact that the fibers which flow from the ganglia innervate all sectors of GIT. Seventy-two hours after the operation,

Card: 1/2

COUNTRY : USSR
CATEGORY :
ABS. JOUR. : RZhBiol., No. 1959, No.

INST. :
TITLE :
ORIG. PUB. :
ABSTRACT : dystrophic changes developed in nerve fibers of the wall of the various GIT sectors, especially in the jejunum and the ileum and in the stomach.

CARD: 2/2

GAVRILOV, A.I., (BSSR, g.Vitebsk, ul. Chekhova, d.4, kv.2), AKULININ, A.A.
ZHAKOV, M.S.

Sympathetic nerves of the gastrointestinal system in swine.
Arkh.anat., glist. 1 embr. 35 no.5:108-110 S-0 '58 (MIRA 11:12)

1. Kafedra normal'noy anatomi (zav. - dots. A.A. Akulinin)
i kafedra patologicheskoy anatomi (zav. - prof. A.I. Gavrilov)
Vitebskogo veterinarnogo instituta.

(GASTROINTESTINAL SYSTEM, innervation,
sympathetic nerves in swine (Rus))
(SYMPATHETIC NERVOUS SYSTEM, anat. & histol.
gastrointestinal innervation in swine (Rus))
(SWINE,
sympathetic gastrointestinal innervation (Rus))

L 05104-67

ACC NR: AP6013241

SOURCE CODE: UR/0413/66/000/008/0033/0034

24
B

AUTHORS: Dodik, S. D.; Gavrilov, A. I.

ORG: none

TITLE: A device for the composite protection of a semiconductor voltage stabilizer. Class 21, No. 180643

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 8, 1966, 33-34

TOPIC TAGS: voltage stabilizer, circuit design; electric protective equipment

ABSTRACT: This Author Certificate presents a device for the composite protection of a semiconductor voltage stabilizer from overloads, a short circuit in the output of the stabilizer, and a depression of the voltage larger or smaller than the specified values. The design simplifies the device and increases its reliability. The collectors of all semiconductor triodes operating in the comparison circuits are connected through the relay winding with the minus power supply source. These collectors are connected through the normally closed relay contact and resistor to the positive power supply source. The normally closed relay contact is connected to the collector circuit of the control transistor.

UDC: 621.316.93

Card 1/1 vmb

GAVRILOV, A.I.

Limiting the speed of hoisting machinery. Bezop. truda v prom. 7 no.2:
30 F '63. (MIRA 16:2)

1. Glavnnyy elektromekhanik upravleniya Chitinskogo okruga Gosudar-
stvennogo komiteta pri Sovete Ministrov RSFSR po nadzoru za bezopasnym
vedeniyem rabot v promyshlennosti i gornomu nadzoru.

(Hoisting machinery—Safety appliances)

← GAVRILOV, A.I.

REF ID: A656

GAVRILOV, A.I., inzh.-elektromekhanik

Design a compact winch for minor hoistings. Bezop.truda v prom.
1 no.10:33 0 '57. (MIRA 10:11)

1. Upravleniye Chelyabinskogo okruga Gosgortekhnadzor SSSR.
(Winches)

GAVRILOV, A. I.

IAKubovich, I. IA., Makarov, S. P., Gavrilov, A. I. - "Synthesis of organoelemental compounds of the aliphatic series by the diazo method. Part 4. Synthesis of compounds of the elements of the 4th group - organic tin compounds. (p. 1788)

SO: Journal of General Chemistry, (Zhurnal Obshchei Khimii), 1952, Vol. 22, No. 10

GAVRILOV, A. I.

PA 12/49T60

USSR/Engineering
Refractory Materials
Refractories

Sep 48

"Protective Coatings and Glazes," A. K. Karklit, and
A. I. Gavrilov, 2 pp

"Ogneupory" Vol XIII, No 9

Report of experiments carried out by Inst of Re-
fractory Materials. Results show value of such
coatings for protecting refractories. Illustrated
by photograph. Discrepancies between results and
data given by Poluborjaryinov and Trokhimovskaya.
("Ogneupory", 1948, No 7).

12/49T60

GAVRILOV, A.K.

AID P - 1934

Subject : USSR/Engineering

Card 1/1 Pub. 29 - 14/31

Author : Gavrilov, A. K., Foreman

Title : ~~Utilizing the heat of the water coming from~~
Martens furnaces

Periodical : Energetik, 3, 20 - 21, Mr 1955

Abstract : The author presents a brief note about the utilization
of heat in the water coming from Martens furnaces for
feeding the zeolite water softening system of a
metallurgical plant. One drawing.

Institution: One drawing

Submitted : No date

GAVRILOV, A.K., dots., kand.tekhn.nauk

Investigating the effect of radiator-fan performance on the
thermal condition and economic efficiency of tractor engines.
Trudy Sib.avt.-dor.inst. no.6:21-39 '57. (MIRA 12:2)
(Tractors--Engines)

GAVRILOV, A.K.,dots.,kand.tekhn.nauk

Selecting optimum ignition timing for heating up the engine.
Trudy Sib.avt.-dor.inst. no.6:41-47 '57. (MIRA 12:2)
(Automobiles--Engines)

GAVRILOV, A.K., kand.tekhn.nauk; SHEVCHENKO, P.L.

Increasing the reliability of engine cooling systems. Avt.prom.
28 no.1:11-14 Ja '62. (MIRA 15:2)

1. Sibirskiy avtomobil'no-dorozhnyy institut imeni V.V.
Kuybysheva. (Automobiles—Engines—Cooling)

GAVRILOV, A.K., kand. tekhn. nauk

Studying the stress in the fan elements of the KDM-1CO engine.
Trakt. i sel'khozmash. no.10-9-11 0 '64. (MIRA 17s12)

1. Sibirskiy avtomobil'no-dorozhnyy institut im. V.V. Kuybysheva.

GAVRILOV, A.K., kand.tekhn.nauk; ZENZIN, Yu.A., inzh.

Studying elements of the air conduit of the D-37M engine using
integrators based on electrohydrodynamic analogy. Trakt. i
sel'khozmash. no.217-9 F '65. (MIRA 18:4)

1. Sibirskiy avtomobil'no-dorozhnyy institut im. V.V.Kuybysheva.

GAVRILOV, A.K. kand. tekhn. nauk

Intensification of convective heat transfer in the cooling-system radiator of the SMD-14 engine. Izv. vys. ucheb. zav.; mashinostr. no.7:104-109 '65. (MIRA 18:12)

1. Submitted July 8, 1964.

ZENZIN, Yu.A.; BOEROV, V.P.; GAVRILOV, A.K.; CHIRIK, P.I.; KATOL'NIK, V.M.

Stand for controlling the aerodynamic resistance of cylinders
and heads of air-cooled engines. Trakt. i sel'khozmash. no.8:
14-15 Ag. '65. (MIRA 18:10)

1. Sibirskiy avtomobil'no-dorozhnyy institut im. V.V. Kuybysheva
i Vladimirskiy traktornyj zavod im. A.A. Zhdanova.

I. 07863-67 EWT(d)/EWT(1)/EWP(m)/EWT(m)/EWP(f)/EWP(c)/EWP(v)/EWT(k)/EWP(z)
ACC NR: AP6011246 FDN SOURCE CODE: UR/0413/66/000/006/0090/0090

AUTHORS: Zenzin, Yu. A.; Bobrov, V. P.; Gavrilov, A. K.; Chirik, P. I.; Katol'nik, V. M.

68

B

ORG: none

TITLE: An aerodynamic chamber for inspecting the cylinders and heads of internal combustion engines by their aerodynamic resistance. Class 42, No. 179965

SOURCE: Izobreteniya, promyshlennyye obrastsy, tovarnyye znaki, no. 6, 1966, 90

TOPIC TAGS: aerodynamic test, aerodynamics, internal combustion engine, high pressure chamber

ABSTRACT: This Author Certificate presents an aerodynamic chamber for inspecting the cylinders and heads of internal combustion engines by their aerodynamic resistance. The chamber is connected to a measuring pipe which contains a throttle provided with a device for holding the inspected object and with a U-shaped liquid manometer. The latter records the pressure at the entrance to the measuring pipe, this pressure being indicative of the aerodynamic resistance offered by the inspected object. To provide a means for marking the object being inspected, the device contains a marking equipment with several scribes capable of producing a symbol corresponding to a given aerodynamic resistance. The liquid manometer of the pipe is provided along its

UDC: 620.533.607

Card 1/2

ACC NR: AP6011246

height with photoresistors responding to the movement of the liquid level. The number of these photoresistors is equal to the number of scribes, and each resistor is electrically connected with one of the markers. To check the pressure in the chamber, a single photoresistor may be placed on the liquid manometer of the chamber and may be electrically connected to the marking device.

SUB CODE:2013/

SUBM DATE: 04May64

Card 2/2 bc

GAVRILOV, A.M.

[Vegetable gardening on the Lenin Collective Farm, Slobodzeya District] Ovoshchevodstvo kolkhoza im. Lenina, Slobodzelskogo raiona. Kishinev, 1956. 39 p. (In Moldavian) (MLRA 10:6)
(Vegetable gardening)

GAVRILOV, A. M., AND A. G. KONSTANTINOV

Tekstil'nye materialy v samoletostroenii. (Moskva), Vozrozhdeniye, 1949.

Title tr.: Textile materials in aircraft construction.

ACF

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955.

COUNTRY : USSR

TOPIC : Cultivated Plants. General Problems.

ART. JOUR. : Ref Char-Biologiya, No. 5, 1959, No. 26 197

Author : Gavrilov, A.M.

INST. : —

FILE : Stubble Plantings with Irrigation in
Stalingradskaya Oblast.

ORIG. PUBL. : S. kh. Povolozh'y', 1958, No. 8, 37-36

ABSTRACT : No abstract

CARD : 1/1

GAVRILOV, A.M.

Automatic control and telemechanization of power installations
of the Likhachev Automobile Plant in Moscow. Prom.energ. 15
no.3:1-4 Mr '60. (MIRA 13:6)
(Automatic control) (Moscow--Automobile industry)

GAVRILOV, Aleksandr Mikhaylovich

Gidrologiya I Narodnoye Khozyaystvo (By) A.M. Gavrilov (1) I.V. Popov. Leningrad,
Gimiz, 1960.

182 (1) p. illus., diagrs., graphs, maps, tables.
Bibliography: p. 182-(183).

GAVRILOV, A.M., POLOVIN, S.P.

"Practical Hydrology (For Practical Workers and hydrometeorological
Observers)" Prakticheskaya Gidrologiya 1943 106 pp

GAVRILOV, A.M.

[U.S.S.R. rivers in the country's service] Reki SSSR na sluzhbe rodiny.
Leningrad, Gidrometeorologicheskoe izd-vo, 1951. 35 p. (MLRA 6:8)
(Rivers) (Inland navigation)

GAVILOV, A. V.

Village hydroelectric stations and hydrology.
Leningrad, Gidrometeorologicheskoe izd-vo, 1952. 33 p. (Nauchno-pouzliarneia
biblioteka) (54-18035)

TK4 18.037

GAVRILOV, A. M.

USSR/Meteorology - Hydrology, Hydro-
electric Power Plants

Jun 52

"Hydrology and Rural Hydroelectric Stations," A. M.
Gavrilov, Leningrad State Hydrol Inst

"Meteorol i Gidrol" No 6, pp 3-7

Describes the tremendous development of rural hydroelec stations under Soviet government control. He states that his studies reveal that a tighter bond between hydroelec stations and hydrology is desirable; more attention should be paid to knowledge of water power, particularly to small rivers.

229T90

229T90

"*On the Experience Gained in the Calibration of Rural Hydroelectric Power Plants*,"
M. S. L. i. Gidroelektr., No. 2, 1955, pp 35-37

Reports and recommendations on procedures and organization for the computation of runoff in the direction of hydroelectric power plants, which are based on the experience gained in the calibrating of two rural hydroelectric power plants. The authors pay particular attention to the selection of the place for the "water direction line" with the aim of measuring the discharge of water under conditions of an artificially recorded runoff during calibration of weir apertures in turbines of hydroelectric plants. (R.GeoL, No. 2, 1955) SC: Sum. No. 713, 9 Nov 55

NEZHIKHOVSKIY, Ruvim Afroimovich ; GAVRILOV, A.M., redaktor; YASNO-
GORODSKAYA, M.M., redaktor; BEYBINA, N.I., tekhnicheskiy
redaktor.

[Neva River] Reka Neva. Leningrad, Gidrometeorologicheskoe
izd-vo, 1955. 93 p.
(Neva River) (MLRA 8:12)

GAVRILLOV, Aleksandr Mikhaylovich; POPOV, Igor' Vladimirovich; YASNOGO-
RODSKAYA, M. M., redaktor; DAVYDOV, L. K., professor, redaktor;
BRAYNINA, M. I., tekhnicheskiy redaktor.

[Problems in hydrology and the national economy] Voprosy hidro-
logii i narodnogo khoziaistvo. Pod red. L.K. Davydova. Leningrad,
Gidrometeorologicheskoe izd-vo, 1955. 102 p. (MLRA 8:9)
(Hydrology)

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R000514420018-6

GAVRILOV, A.M.

Conference on karst. Meteor. i gidrol. no.7:61 Jl '56. (MLRA 9:10)
(Karst)

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R000514420018-6"

GAVRILOV, A.M.

Concerning N.V. Plikush's article "Calculating flow at hydroelectric power stations." Meteor. i gidrol. no.9:42 S '56. (MLRA 9:11)
(Stream measurements)

GAVRILOV, A.M.

Considering the effect of natural factors on stream flow. Izv.
Vses. geog. ob-va 88 no.2:138-146 Mr-Apr '56. (MLRA 9:8)
(Stream measurements)

ANDREYEVA, N.M.; GAVRILOV, A.M.; KOPLAN-DIKS, S.I.; PETRIKEVICH, N.P.;
PROSKURYAKOV, A.K., kand.tekhn.nauk; SEMENOVA, Ye.S.; UKHANOV,
V.V.; FEROVA, R.A.; SHAMOV, G.I. [deceased]; GROSMAN, R.V.,
red.: SOLOVEYCHIK, A.A., tekhn.red.

[Instructions for hydrometeorological stations and posts]
Nastavlenie gidrometeorologicheskim stantsiiam i postam. No.6,
pt.1 [Hydrological observations and work on rivers] Gidrologicheskie
nabliudeniia i raboty na rekakh. Leningrad, Gidrometeor. izd-vo.
1957. 399 p.
(MIRA 12:2)

1. Russis (1923- U.S.S.R.) Glavnaya upravleniye gidrometeorolo-
gicheskoy sluzhby. 2. Sotrudniki Otdela gidrometrii i Laboratori
nanosov i hidrokhimii Gosudarstvennogo ordena Trudovogo Krasnogo
Znameni hidrologicheskogo instituta (for all except Grosman, Soloveychik).
(Hydrography--Observers' manuals)

SOV/124-58-8-8820

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 8, p 70 (USSR)

AUTHORS: Gavrilov, A.M., Kholodilin, G.K.

TITLE: Experimental Measurements of the Water-flow Rate Through the Turbines of Small Hydroelectric Power Plants (Opytnyye izmereniya raskhodov vody cherez turbiny malykh gidroelektrostantsiy)

PERIODICAL: Tr. Gos. gidrolog. in-ta, 1957, Nr 62, pp 24-39

ABSTRACT: If small hydroelectric power plants, and particularly chains of hydroelectric power plants, are to operate efficiently, strict account must be kept of the rate of water discharge into their respective tail-water basins. The authors discuss the different methods for allowing for the water flow at hydroelectric power plants. Because at the smaller plants the design characteristics of the turbines in most cases are not known, the most commonly used procedure at present for allowing for the rate of water flow through the turbines is based on determining the relationship between the rate of water flow through a turbine Q and either the variable opening of its distributor or the mean hourly power output N as measured by means of a calibration

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SOV/124-58-8-8820

Experimental Measurements of the Water-flow Rate (cont.)

method. The calibration is done by means of hydrometry. The authors include a number of examples to demonstrate the calibration system used and the method of working out the above-mentioned relationships in the case of hydroelectric-power-plant turbines. Working out relationships of the $Q = f(N)$ type requires accurate power-output measurements synchronized with measurements of the water-flow rate; these synchronized measurements are provided by meters (used in conjunction with other electrical instruments designed to test the accuracy of the meters).

V.A. Bashkin

Card 2/2

ГАВРИЛОВ, А.М.

GAVRILOV, A.M.; KHOLODILIN, G.K.

Experience in regular registration of the flow of water by small hydroelectric power stations. Trudy GGI no.62:40-47 '57.

(MIRA 10:12)

(Hydroelectric power stations)

GAVRILOV, A. M. and P. V. MOLITVIN

Reported on their investigations regarding rivers in karst districts of the USSR

report presented at the 3rd All-Union Hydrological Congress, 7-17 Oct 1957,
Leningrad.

(Izv. Ak Nauk SSSR, ser geograf., 3, pp3-9, '58)

UKHANOV, V.V.; FLEROVA, R.A.; ZNAMENSKAYA, Ye.M.; SEMENOVA, Ye.S.; ANDREYeva, N.M.; SKORODUMOV, D.Ye.; GAVRILOV, A.M.; PETRIKOVICH, N.P.. Prinimali uchastiye: MOKHOVA, M.A.; BORSUK, N.V.. PROSKUR-YAKOV, A.K., otv.red.; SHATILINA, M.K., red.; SOLOVEYCHIK, A.A., tekhn.red.

[Directions for hydrometeorological stations and posts] Nastavlenie gidrometeorologicheskim stantsiam i postam. Leningrad, Gidrometeor.izd-vo. No.6, pt.3. [Compiling and preparing for printing the yearbook of hydrology] Sostavlenie i podgotovka k pechati hidrologicheskogo zhurnalika. 1958. 290 p.

(MIRA 13:2)

1. Russia (1923- U.S.S.R.) Glavnoe upravlenie hidrometeorologicheskoi sluzhby. 2. Otdel hidrometrii Gosudarstvennogo ordena Trudovogo Krasnogo Znameni hidrologicheskogo instituta (for all except Shatilina, Soloveychik).

(Hydrology--Yearbooks)

Gavrilov, A.M.

AUTHOR: Gavrilov, A. M. 50-2-8/22

TITLE: Calculation of the Flow of Water Through Turbines in Large Hydro-electric Power Plants (Ob uchete stoka cherez turbiny nakrupnykh hidroelektrostantsiyakh).

PERIODICAL: Meteorologiya i Gidrologiya, 1958, Nr 2, pp. 33-35 (USSR)

ABSTRACT: In 1956 the co-operators of the Hydrological State Institute have visited a number of large electric power stations in order to get acquainted with the performance of the "rule for the control of the outflow of large electric power stations and hydroelectric centrals" on the very spot as well as to investigate some details of regular control of the outflow on different conditions. The basic element in the water consumption at ramming points of a number of big electric power stations is the water consumption by the turbines. In order to determine the quantity of consumption the head of water as well as the average output per hour must be continuously determined. The graphical computation plans of water consumption by the turbines are set up on the basis of turbine characteristics obtained on the occasion of controlling their model in the plant. This is done by means of trans-

Card 1/4

Calculation of the Flow of Water Through Turbines in Large Hydroelectric Power Plants 50-2-8/22

formation of the test data from the model to the actual aggregate, according to the analogous formulae and by means of transition from the power output of the turbine to the power output of the generator by means of the efficiency of the generator. The mentioned method is not the best and should be replaced by another which demands less work.

The following conclusions can be made from the remarks in this paper:

- 1) The values of ramming pressure which were taken into consideration for the computation of the values of daily water consumption do not correspond in the majority of the electricity plants to the values of the effective head of water. This can be explained by the neglecting of pressure losses, the difference of velocity pressure as well as by the possible difference of the water level in the outlet channels, the diversity of turbines and the lowering of the water level between the measuring points of the water and the turbines. On this occasion water pressure is usually increased by a small extent

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Calculation of the Flow of Water Through Turbines in Large
Hydroelectric Power Plants

50-2-8/22

which causes a decrease of water consumption by 3-5% on
the average.

2) In view of this fact greatest attention must be paid in
all electric power plants to the control of water pressure
losses. 2 Water level observation points (water level
gauges) must be mounted in each section of the river in
immediate vicinity of turbines in the inlet and outlet
channels.

For the estimation of the lowering of the water level in
the lower section of the channel short termed special
observations by means of continuously operating
recording instruments and temporarily mounted water
meters must be carried out in every electric power
plant. These devices should be mounted to the outlet
channels of the turbines. According to the results of
observation a decision is taken as to the necessity of
the determination of computation values of pressure
separately for each turbine.

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Calculation of the Flow of Water Through Turbines in Large
Hydroelectric Power Plants

50-2-8/22

3) It is necessary to measure greater losses on the inlet grids as to the geometrical head of water (more than 1-2%). In this case the electric power plants must be equipped with permanent devices for the regular measuring of water flow on the grids. Also the difference of velocity pressure must be determined. There are 4 references, 1 of which is Slavic.

AVAILABLE: Library of Congress

Card 4/4

GAVRILOV, A.M.

Calibration results of a discharge opening in the dam of a small
hydroelectric power station under natural conditions. Trudy GGI
no.70:30-35 '58. (MIRA 11:11)
(Hydroelectric power stations)

GAVRILOV, Aleksandr Mikhaylovich; POPOV, Igor' Vladimirovich;
ZVORYKIN, K.A., otv.red.; DAVYDOV, L.K., prof., red.; YASNO-
GORODSKAYA, M.M., red.; SERGEYEV, A.N., tekhn.red.

[Hydrology and the national economy] Gidrologiia i narodnoe
khoziaistvo. Pod red. L.K.Davydova. Leningrad, Gidrometeor.
izd-vo, 1960. 182 p. (MIRA 13:8)
(Hydrology--Research)

GAVRILOV, Aleksandr Mikhaylovich, kand.geogr.nauk; KABANOVA, Kira
Sergeyevna, kand.geogr.nauk; PROSKURYAKOV, Andrey Konstantinovich,
kand.tekhn.nauk; IVZHIMKO, A.Kh., red.; VLADIMIROV, O.G.,
tekhn.red.

[Principles of calculating water discharge at hydroelectric
power stations] Osnovy ucheta stoka na gidroelektrostantsiiskh;
posobie dlia hidrologov. Leningrad, Gidrometeor.izd-vo, 1960.
342 p.

(MIRA 14:1)

(Hydroelectric power stations)

GAVRILOV, A.M.

Influence of karst upon the runoff of small rivers. Izv. Vses. geog. ob-va 92 no.3:251-262 My-Je '60. (MIRA 13:6)
(Karst) (Runoff)

GAVRILOV, Aleksey Maksimovich, kand.sel'skokhoz.nauk; FEDOROV, N.A.,
red.; IZHEDOLDINA, S.I., tekhn.red.

[Two yields a year; growing stubble and companion crops in
Stalingrad Province] Dva uroshchaya v god; vozdelyvanie
pozhnivnykh i podsevnykh kul'tur v Stalingradskoi oblasti.
Stalingrad, Stalingradskoe knizhnoe izd-vo, 167 p.

(MIRA 14:3)

(Field crops)

GAVRILOV, A.M., kand.sel'skokhozyaystvennykh nauk

Use irrigated lands more intensively. Zemledelie 23 no.12:11-14
D '61. (MIRA 15:1)

1. Volgogradskiy sel'skokhozyaystvennyy institut.
(Irrigation farming)

GAVRILOV, Aleksey Maksimovich; KOVYRYALOV, Yuriy Platonovich; KUKLIN, P.V.,
red.; IZHBOLDINA, S.I., tekhn. red.

[Reclaiming floodlands in Stalingrad Province] Osvoenie poimennnykh
zemel' Stalingradskoi oblasti. Stalingrad, Stalingradskoe knizhnoe
izd-vo, 1961. 138 p. (MIRA 14:11)

1. Kafedra zemledeliya Stalingradskogo sel'skokhozyaystvennogo in-
stituta (for Gavrilov). 2. Sekretar' rayonnogo komiteta Kommunisti-
cheskoy partii Sovetskogo Soyuza (for Kovyryalov).

(Volgograd Province—Drainage)

(Volgograd Province—Agriculture)

PUSHEK, B.S., kand. geogr. nauk; POFOV, I.V., kand. geogr. nauk; OBRAZTSOV, I.N., inzh.; FEDOROV, N.N., kand. tekhn. nauk; GRUSHEVSKIY, M.S., kand. tekhn. nauk; KRIVOSHEY, B.Z., inzh.; POPOV, O.V., star. nauchnyy sotr.; PIKUSH, N.V., kand. tekhn. nauk; LEVIN, A.G., kand. tekhn. nauk; ZHIDIKOV, A.P., inzh.; GAVRILOV, A.M., kand. geogr. nauk; KONDRAT'YEV, N.Ye., kand. tekhn. nauk, red.; URYVAYEV, V.A., kand. tekhn. nauk, red.; SHATILINA, M.K., red.; SOLOVEYCHIK, A.A., tekhn. red.

[Investigation of unsteady flow of water in the Tvertsa and Oredezh Rivers] Issledovaniia neustanovivshegosia dvizheniia vody na rekakh Tvertse i Oredezh. Pod red. N.E.Kondrat'eva i V.A.Uryvaeva. Leningrad, Gidrometeor. izd-vo, 1961. 287 p. 6 charts (in pocket) (MIRA 14:8)

1. Leningrad. Gosudarstvennyy gidrologicheskiy institut.
(Tvertsa River—Hydrology) (Oredezh River—Hydrology)

GAVRILOV, Aleksandr Mikhaylovich; IVANOV, K.Ye., prof., nauchn.
red.; MIRONENKO, Z.I., red.

[Fundamentals of calculating the runoff in hydroelectric
power stations; textbook for hydrologists] Osnovy ucheta
stoka na gidroelektrostantsiakh; posobie dlia hidrologov.
Leningrad, Gidrometeoizdat, 1965. 418 p. (NIRA 18:12)

GRINENKO, L.N.; ANDREYEVA, M.G.; GAVRILCV, A.M.

Some data on isotope composition in sulfur sulfides of the
gold ore deposits of the Baley region (eastern Transbaikalia).
Geokhimiia no.3:325-336 Mr '65. (MIPA 18:7)

1. Tsentral'nyy nauchno-issledovatel'skiy gorno-razvedochnyy
institut redkikh, rasseyanykh i blagorodnykh metallov, Moskva.

ZHIGULIN, V.I.; GAVRILOV, A.M.; KATEL', I.M.

Ramming a new open-hearth furnace hearth bottom. Metallurg 10
no. 3:16-17 Mr '65. (MJRA 18:5)

GAVRILOV, A. M. Cand Agr Sci -- (diss) "Post-harvest and additional sowing
crops in the irrigated agriculture of the Volgo-Akhtubinsk bottom lands."
Stalingrad, 1957. 23 pp (Min of Agr USSR. Stalingrad Agr Inst), 150 copies
(KL, 42-57, 93)

GAVRILOV, A.M., kand.sel'skokhoz. nauk

Stubble crops in Volgograd Province. Zemledelie 25 no.7:45-47 J1 '63.
(MIRA 16:9)

1. Volgogradskiy sel'skokhozyaystvennyy institut.
(Volgograd Province—Field crops)

GAVRILOV, Aleksandr Nikanorovich; KHAVINSON, Yu.I., red.;
PONOMAREVA, A.V., tekhn. red.

[Maintenance and adjustment of the electrical equipment of
motor vehicles and tractors] Tekhnicheskoe obsluzhivanie i
regulirovka avtotraktornogo elektrooborudovaniia. Irkutsk,
Irkutskoe knizhnoe izd-vo, 1963. 78 p. (MIRA 17:1)

GAUDIL'Y, A. V.

"Technology of Aviation Instrument Construction." Pub 12 Nov 51, Moscow Order of Lenin Aviation Test Army Servo-Mechanik.

Dissertations presented for science and engineering to USSR in Moscow during 1951.

SO: SMM. No. 150, 2 May 52.

GAVRILOV, A.N.

[Technology of aviation instrument making] Tekhnologija
aviatsionnogo priborostroenija. 1951. 460 p. (MLRA 8:9)
(Aeronautical instruments)

GAVRILOV, A.N.; MYUYR, V.N.

[Methods of increasing labor productivity in tool making] Puti povyshenija proizvoditel'nosti truda v priborostroenii. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1953. 238 p.
(MLRA 6:8)
(Machine-tool industry)

GAVRILOV, A.N.

GAVRILOV, A.N., doktor tekhnicheskikh nauk, redaktor; MALOV, A.N., dotsent,
kand. tekhnicheskikh nauk, retsenzenter; RUSEVICH, I.M., inzhener,
redaktor; POPOVA, S.M., tekhnicheskiy redaktor

[Progressive practice in instrument making] Progressivnaia tekhnologiya priborostroenija. Moskva, Gos. nauchno tekhn. izd-vo mashinostroit. i sudostroit. lit-ry, No.3. [Instrument parts production techniques] Tekhnologija proizvodstva elementov priborov. Pod red. A.N. Gavrilova. 1953-320 p. (MIRA 8:3)

1. Vsesoyuznoye nauchnoye inzhenerno-tehnicheskoye obshchestvo
mashinostroiteley i priborostroiteley.
(Instruments)

646

SOVETSKA VEDA, STROJIRENSTVI (Soviet Science, Mechanical Engineering, Czechoslovakia)
Vol 4, No. 4, July-August, 1954

Book Reviews: Progressive technology in instrument manufacture,
3 volumes of 198, 338 and 322 pages respectively.
Edited by A. N. Gavrilov, 1953.
Review by J. Kamarad :.....606

B. I. Domanskij; Introduction into Automatic and
Telecontrols, 1950. Czech Translation published
in 1954, 410 pages
Reviewed by M. Balsa :.....608

G. P. Mikhajlov; Welding with a 3-phase arc.
Czech Translation, 1953.
Reviewed by A. Benes :.....611

GAVRILOV, A.N., dokter tekhnicheskikh nauk, professor; RUSEVICH, I.M., inzhener, redaktor; ARTEM'YEVA, A.Yu., redaktor; MATVEYEVA, Ye.N., tekhnicheskiy redaktor.

[Advanced technology in instrument making] Progressivnaia tekhnologija priborostroenija. Pod red. A.N. Gavrilova. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry. No. 4 [Technology of instrument parts production] Tekhnologija proizvedenija elementov priborov. 1955. 214 p. (MIRA 9:5)

1. Vsesoyuznoye nauchnoye inzhenerno-tehnicheskoye obshchestvo mashinostroiteley i priborostroiteley.
(Instruments industry)

1956.171

RABINOVICH, Avraam Nokhimovich, professor, doktor tekhnicheskikh nauk;
SERDYUK, V.K., inzhener, redaktor; GAVRILOV, A.N., doktor tekhnicheskikh nauk;
professor, rektor; HODENSKIY, YA.V., tekhnicheskiy redaktor...

[Automatization and mechanization of selected processes in machine
and instrument construction] Avtomatizatsiya i mekhanizatsiya
sborochnykh protsessov v mashinostroenii i priborostroenii. Kiev,
Gos. nauchno-tekh. izd-vo mashinostroitel'noi lit-ry, 1956. 171 p.
(MIRA 9:4)

(Automation) (Machinery industry)

GAVRILOV, A.N.

Automatization and mechanization of production processes in the
instrument industry. Priborostroenie no.2:1-6 F '57. (MLRA 10:4)
(Instrument industry) (Automatic control)

GAVRILOV, A. N.

Tekhnologiya Izgotovleniya Detaley Aviatsionnykh Priborov (Technology of Producing Aviation Instrument Parts), by A. N. Gavrilov, Oborongiz, Moscow, 1956, 388 pp

This book has been approved by the Ministry of the Aviation Industry USSR as a text for use in aviation instrument building tekhnickums.

It describes the general and theoretical aspects of selecting the proper technological means for the production of instruments. A study is made of the general production methods most characteristic to instrument building as well as the technology of producing typical parts such as stems, gears, threads, springs, magnets, measuring scales and dials, housings, etc.

The author describes for each instrument part its machining and accuracy requirements, the metal to be used, heat-treating requirements, and other production considerations necessary for the part to meet its desired functional requirements within the instrument as a whole.

Sum 1274

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PHASE I BOOK EXPLOITATION

SOV/2118

Gavrilov, A.N., Doctor of Technical Sciences, Professor; P.I. Kovalev;
B.A. Khokhlov; and N.F. Zherdev

Al'bom prisposobleniy dlya metallorezhushchikh stankov, primenayemykh v
priborostroyenii (Album of Fixtures for Metal-Cutting Tools Used in the
Instrument-Making Industry) Moscow, Mashgiz, 1958. 166 p. 5,000
copies printed.

Ed.: A.N. Gavrilov, Doctor of Technical Sciences, Professor; Scientific Ed.
of Publishing House: G.F. Kochetova; Tech. Ed.: Ye.S. Gerasimova;
Managing Ed. for Literature on Machine Building and Instrument Making
(Mashgiz): N.V. Pokrovskiy, Engineer.

PURPOSE: The album is intended for tool designers and process engineers.
The album may also be used as a textbook by students in vtuzes and machine-
tool tekhnikums in connection with projects and work leading to a diploma.

COVERAGE: This album is intended to facilitate the work of creating better machine-
tool fixtures. There are 180 drawings of the more common and characteristic
fixtures from some twenty instrument-making plants. There are brief explanations

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varu c/p

CHMILYU, A. N.

PHASE I BOOK EXPLOITATION

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Nauchno-tekhnicheskoye obshchestvo priborostroitel'noy promyshlennosti

Avtomatizatsiya i mekhanizatsiya protsessov proizvodstva v priborostroyenii
(Automation and Mechanization of Production Processes in Instrument
Manufacturing) Moscow, Mashgiz, 1958. 591 p. 8,500 copies printed.

Ed.: Gavrilov, A. N., Doctor of Technical Sciences, Professor; Reviewer:
Vladziyevskiy, A. P., Doctor of Technical Sciences; Ed. of Publishing House:
Kochetova, G. F., Engineer; Tech. Ed.: Model', B. I.

PURPOSE: This book is intended for engineers, technicians, and scientific personnel concerned with mechanization and automation of production processes in instrument manufacturing, and for students and teachers of this subject in universities.

COVERAGE: The book describes the characteristic features of the present state of mechanization and automation of production processes in the instrument industry. Part 1. describes the planning of automation means, the theory of precision, economic efficiency under automated production conditions, and also

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Automation and Mechanization of (Cont.)

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the theory and practice of overall mechanization and automation. Parts 2, 3, and 4 discuss the most characteristic and effective methods and means of automation and mechanization in all stages of instrument manufacturing. No personalities are mentioned. There are no references.

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Ch. III. Calculating the Precision of Technological Processes of Machining Under Conditions of Automated Production (Gavrilov, A. N., Doctor of Technical Sciences, Professor and Kurapov, A. N., Candidate of Technical Sciences, Docent)	41
1. Analysis of production errors arising from technological processes	41
2. Compounding (synthesis) of production errors	51
3. Example of calculating a compounded error	69
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PHASE I BOOK EXPLOITATION

1121

Gavrilov, Anatoliy Nikolayevich and Myuhr, Valentin Nikolayevich.

Rezervy i puti povysheniya proizvoditel'nosti truda v priborostroyenii
(Potentials and Means for Increasing Labor Productivity in Instrument
Manufacture) Moscow, Mashgiz, 1958. 642 p. 2,500 copies printed.

Reviewers: Polyakov, N.I., Professor and Galey, M.T., Candidate of
Technical Sciences; Ed.: Avrutin, S.V., Docent; Ed. of Publishing
House: Salyanskiy, A.; Tech. Ed.: Uvarova, A.F.; Managing Ed. for
Literature on the Economics and Organization of Production (Mashgiz);
Saksaganskiy, T.D.

PURPOSE: The book is intended for engineering and technical personnel of the
instrument manufacturing industry.

COVERAGE: This book discusses basic ways and means for increasing labor pro-
ductivity in instrument manufacturing operations and it covers the full
production cycle including the design and developmental phase of engineering
processes as well as actual manufacturing of the final product. Modern
methods of casting and pressure forming, making plastic parts, machining
metal parts, and assembling instruments are fully described and discussed.

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Potentials and Means (Cont.) 1121

Methods of overall automatization of production processes are reviewed and explained. There are 49 references of which 47 are Soviet, 1 German, and 1 reference to non-Soviet magazines.

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S/123/60/000/009/015/017
AC04/A001

Translation from: Referativnyy zhurnal. Mashinostroyeniye, 1960, No. 9, p. 265,
45196

AUTHOR: Gavrilov, A.N.

TITLE: State and Fundamental Problems of the Theory of Manufacturing
Accuracy in Mechanical Engineering and Instrument-Making

PERIODICAL: V sb.: Osnovn. vopr, tochnosti, vzaimozamenyayemosti i tekhn.
izmereniy v mashinostr. Moscow, Mashgiz, 1958, pp. 24-39

TEXT: The author analyzes three trends in solving problems of accuracy in
mechanical engineering and instrument-making: the structural, technological and
metrological trends. Special attention is given to the production technology in
the following stages: 1) Problems of general science and procedure; 2) investi-
gations of individual technological processes; 3) analysis and synthesis of
accuracy of technological processes as a whole, concerning all stages of machine
part tooling; 4) analysis and synthesis of accuracy of the manufacture of
articles (devices, assemblies, machines) as a whole. The author studies problems
of statistical investigations of the accuracy of technological processes, using

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A004/A001

State and Fundamental Problems of the Theory of Manufacturing Accuracy in
Mechanical Engineering and Instrument-Making

a number of scientific works as example, which play a great rôle in establishing
theoretical foundations of accuracy calculations of individual processes, as well
as problems of analysis and synthesis of accuracy of production processes of
machine parts and articles as a whole.

K.I.Yu.

Translator's note: This is the full translation of the original Russian
abstract.

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GAVRILOV A. N.

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PHASE I BOOK EXPLOITATION

SOV/4161
SOV/11-S-116

Moscow. Aviatsionnyy institut imeni Sergo Ordzhonikidze

Voprosy teorii tochnosti proizvodstva v priborostroyenii; sbornik statey
(Problems in the Precision Theory of Instrument Manufacture; Collection of
Articles) Moscow, Oborongiz, 1959. (Series: Its: Trudy, vyp. 116)
190 p. Errata slip inserted. 4,150 copies printed.

Sponsoring Agency: USSR. Ministerstvo vysshego obrazovaniya.

Ed. (title page): A.N. Gavrilov, Doctor of Technical Sciences, Professor;
Ed. (inside book): S.I. Bumshteyn, Engineer; Ed. of Publishing House:
N.A. Gortsuyeva; Tech. Ed.: N.A. Pukhlikova; Managing Ed.: A.S. Zaymovskaya,
Engineer.

PURPOSE: This book is intended for design engineers, process engineers, and
students in advanced courses at instrument-manufacture departments of schools
of higher technical education.

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Problems in the Precision Theory (Cont.)

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COVERAGE: The collection of articles deals with general problems in the precision theory of instrument manufacture. The theory and practice of calculating process precision for typical processes and products of the aircraft-instrument and component industries are also discussed. References follow several of the articles.

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